

DETAIL CATALOG NO. 551  
1955

COMPLETE **WOOD** WINDOW UNITS

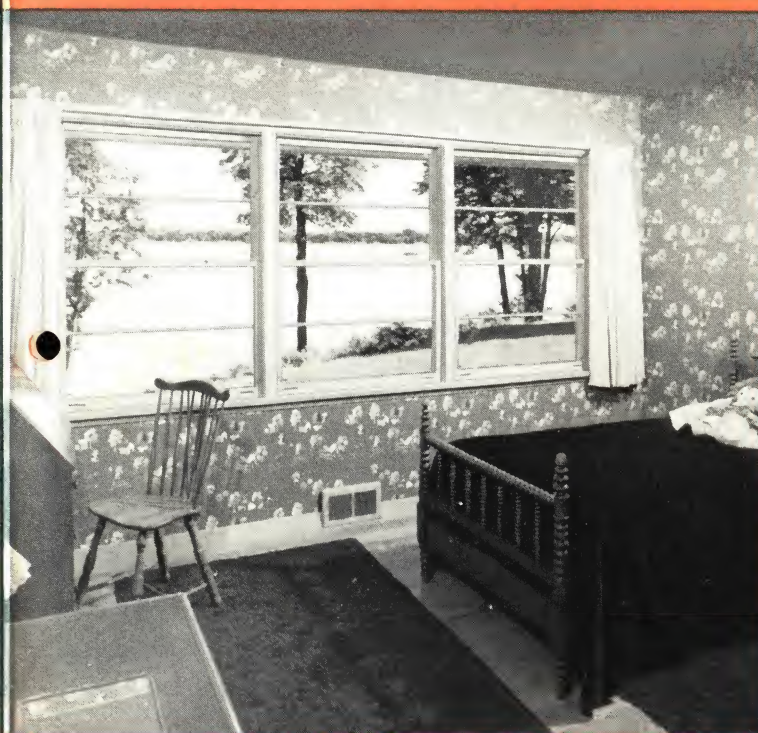
# Andersen Windowalls



Andersen Casement Window Units



Andersen Gliding Window Units



Andersen Pressure Seal Window Units



Andersen Flexivent Window Units

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FROM ANDERSEN CORPORATION

YOUR CHOICE OF

**4** COMPLETE

WOOD WINDOW

UNITS...

carefully engineered...  
precisely manufactured

Andersen WINDOWALLS, America's best-known wood window units, are manufactured by Andersen Corporation, Bayport, Minnesota. Andersen Window Units are sold only through regular millwork channels.

Through the years, the exclusive use of quality materials, accurately milled and fitted, has earned for Andersen Windows a permanent reputation for satisfaction with architects, builders and their clients.

**INSTALLATION**—Famous Andersen WINDOWALLS will give years of outstanding service *if they are properly installed and maintained*. Proper installation is easy and rapid when manufacturer's instructions are followed. See page 23 of this catalog for specifications summarizing installation procedure.

NOW AVAILABLE FROM STOCK...

## NEW WELDED INSULATING GLASS IN ANDERSEN CASEMENT WINDOW UNITS AND ANDERSEN FLEXIVENT WINDOW UNITS

For one-light sash of Andersen Casement Windows in both the 1-6 and 1-10½ widths and all Flexivent Window Units including Flexiview fixed sash.



### CORNER SECTION OF SASH

Note welded edges of glass panel and the groove glazing. This new improved glazing method eliminates face putty, makes a stronger and tighter job and improves the appearance over face glazing. No stops with brad holes to fill—no cracks or joints to open up.

**TO ORDER** this type of glazing, specify corresponding unit numbers for one light Casement sash (see pages 11 and 12) or for Flexivent sash (see page 5). Then add "glazed with Andersen Welded Insulating Glass."

Andersen Welded Insulating Glass is made by an improved method developed by one of the country's leading window glass manufacturers. Two panes of quality window glass (*not* plate glass) are hermetically sealed, with the edges electrically fused, to make a perfect all-glass seal, using no metal or other bonding material.

Through a small hole drilled in one corner, air between the two panes is removed and replaced with specially dried air that is pressurized to withstand atmospheric pressure in all parts of the country, except in the higher mountain altitudes. It is not recommended for permanent installation in elevations over 3000 feet.

Andersen Welded Insulating Glass offers two big advantages to homeowners. Most important is elimination of handling and washing of removable storm panels or sash. In addition, homeowners enjoy insulation of double glazing all year around.

The coefficient of heat transmission for Andersen Welded Insulating Glass is .675 BTU under standard conditions as compared to 1.13 BTU for single glass.



# Andersen Flexivent Window Units

**Quality — Versatility — Economy**

## ANDERSEN FLEXIVENT WOOD WINDOW UNIT

Here's the most versatile window you ever saw! Literally hundreds of combinations are possible.

The Andersen Flexivent Window can be installed in any of three positions—a different sash operation for each position. Combine Flexivents in stacks, ribbons or groups. Choice of fixed or operating sash. Combine Flexivents with fixed glazing. Or build them into big WINDOWALLS using

the new Andersen Flexiview Unit, picture window partner to the Flexivent.

The combinations possible are almost limitless. You see only a few examples on this page.

Flexivent Window Units are engineered for easy operation, superior weathertightness. Sixteen sizes—up to 44 $\frac{3}{8}$ " by 49" glass size. Yet with all its features, it is definitely an economy window.

### Versatile FLEXIVENT — 3 Sash Operations!



**HOPPER STYLE.** Sash open inward. Installed in combination with new Flexiview Units provide a WINDOWALL with picture window beauty plus plenty of ventilation.



**AWNING STYLE.** Sash open outward. In this position, Flexivents provide complete ventilation even during rains. Optional equipment is Roto Lock Underscreen Operator.



**CASEMENT STYLE.** Sash open outward. When placed on end, the versatile Flexivent makes a weathertight, low-cost casement. Caution: Do not install as inswinging casements.

### Versatile FLEXIVENT... Use in ribbons, stacks, groups!



**RIBBON INSTALLATION** of Flexivents is ideal for bedrooms. They provide plenty of ventilation plus a feeling of privacy with the extra wall space homeowners so often want.



**STACK** of Flexivents makes an attractive awning window for most any room in the home. Easy to assemble. Easy to install. Extremely weathertight. Gives ventilation even during rain.



**LARGE GROUPS** of Flexivents give big windows. Shown here are awning, fixed and hopper sash. Large Flexivent groups have proved ideal for schools, factories, institutions.



# Andersen Flexivent Window Units

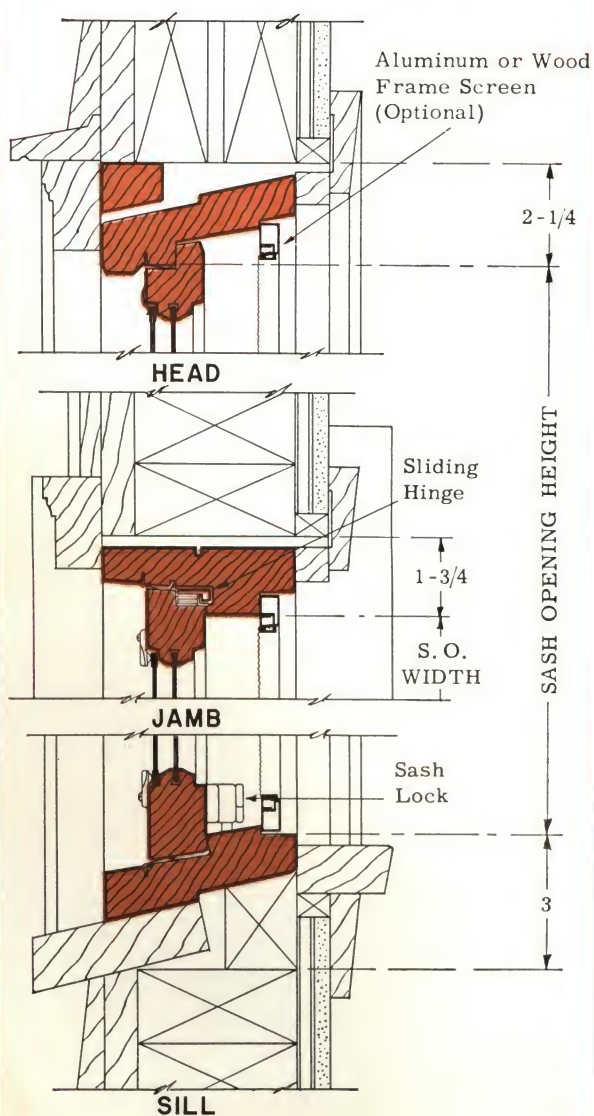
Specially designed dual purpose head and sill members and an interchangeable lock permit reverse installation to provide either projected sash (awning vent) or inward opening sash (hopper vent) with the same basic unit. The head member shown in the detail at left becomes the sill when installed in the reverse position as shown in the right hand detail.

Sash are glazed with quality vision tested glass by a new improved groove glazing method.

Factory assembled unit as furnished by Andersen includes frame and sash shown within the heavy lines, with sash hung on sliding hinges and weatherstrips installed.

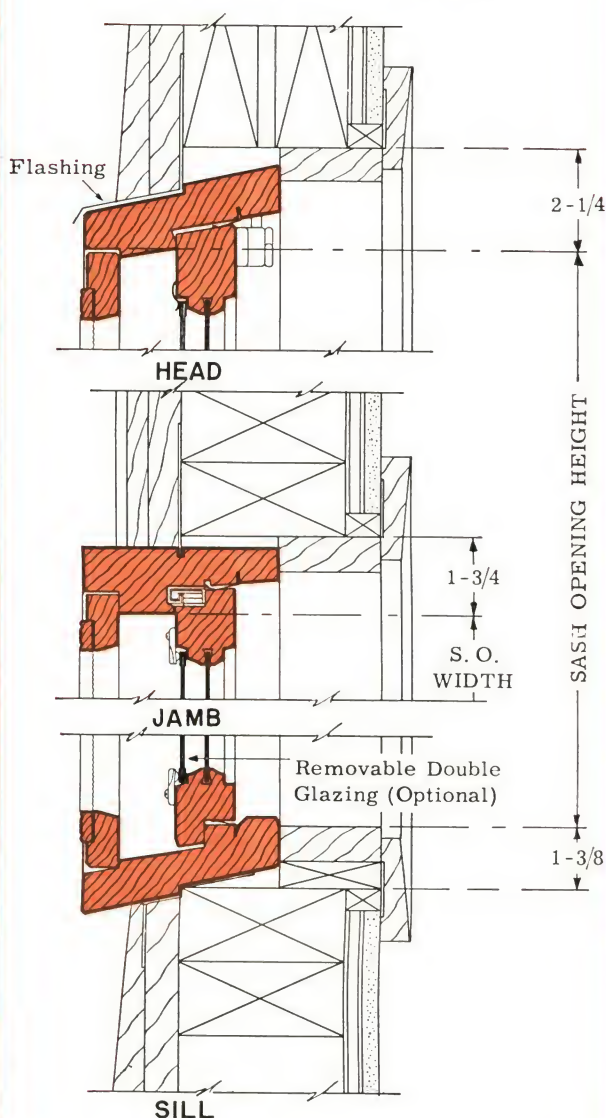
Exterior casings, subsills and other parts required to complete the installation are to be supplied locally.

## OUTSWINGING OR AWNING VENT POSITION



DETAIL No. FO-10. Unit installed in frame wall with exterior casing and subsill. Can also be installed without casing and subsill as shown in detail at right.

## INSWINGING OR HOPPER VENT POSITION



DETAIL No. FI-10C. Unit installed in frame wall without use of exterior casing and subsill. Can also be installed with casing and subsill as shown in detail at left.



**NOTE:** The new 3'8" widths are especially suited to 4' panel wall construction and modular masonry block walls.

### OPENING SIZES FOR MULTIPLE UNIT COMBINATIONS

**OVER-ALL SASH OPENING WIDTH**—The sum of the individual sash openings plus 3" for each mullion section.

**OVER-ALL ROUGH STUD OPENING WIDTH**—Add 3 1/2" to over-all sash opening width.

**OVER-ALL MASONRY OPENING WIDTH**—(2" Brick Moulding)—Add 6" to over-all sash opening width.

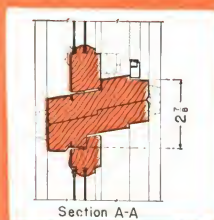
**OVER-ALL SASH OPENING HEIGHTS**—The sum of the individual sash opening heights plus 2 7/8" for each stack section.

**OVER-ALL ROUGH STUD OPENING HEIGHT**—If 1 1/8" x 4" subsill is used, add 5 1/4" to over-all sash opening height. If no subsill is used, add 3 5/8" to over-all sash opening height.

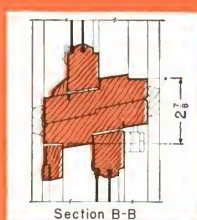
**OVER-ALL MASONRY OPENING HEIGHT**—(2" Brick Moulding and 1 1/8" subsill)—Add 5 3/4" to over-all sash opening height.

### DETAIL SECTIONS

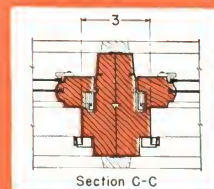
SCALE—1 1/2" = 1'-0"



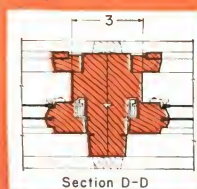
Section A-A  
Stack section with awning vent sash—also case-ment mullion.



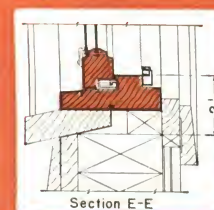
Section B-B  
Stack section with upper sash fixed and lower sash hopper vent.



Section C-C  
Mullion with awning vent sash.



Section D-D  
Mullion with hopper vent sash.



Section E-E  
Sill section when installed as a casement.



Section F-F  
Stack section with both sash hopper vent.

### TABLE OF SIZES

OVERALL SIZE	2-7 5/8"	3-5"	3-8"	4-1"
RGH. STUD OPG.	2-8 1/8"	3-5 1/2"	3-8 1/2"	4-1 1/2"
SASH OPENING	2-4 1/8"	3-2"	3-5"	3-10"
GLASS SIZE	27"	36 3/8"	39 3/8"	44 3/8"
	210			
	214	314	3814	414
	218	318	3818	418
	222	322	3822	422

### FLEXIVIEW UNITS

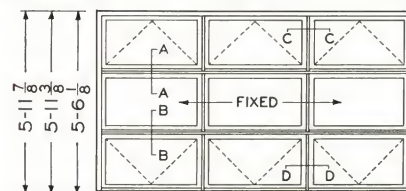
4-7 1/8"	4-8 1/8"	4-9 1/8"
FIXED	FIXED	FIXED
349	3849	449

Units can be easily and quickly joined with corrugated fasteners or by toe nailing reinforced by trim members as shown in sectional details.

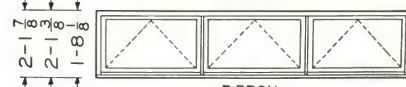
### TYPICAL ARRANGEMENTS

#### FLEXIVENT UNIT NO. 318

MAS. OPENING	10-6"
RGH. STUD OPG.	10-3 1/2"
SASH OPENING	10-0"

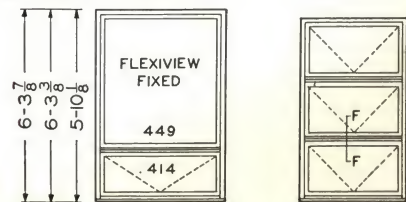


GROUP



RIBBON

MAS. OPENING	4-4"	3-8"
RGH. STUD OPG.	4-1 1/2"	3-5 1/2"
SASH OPENING	3-10"	3-2"



PICTURE WINDOW

STACK



# Andersen Flexivent Window Units

TABLE OF SIZES FOR RIBBONS, STACKS AND GROUPS

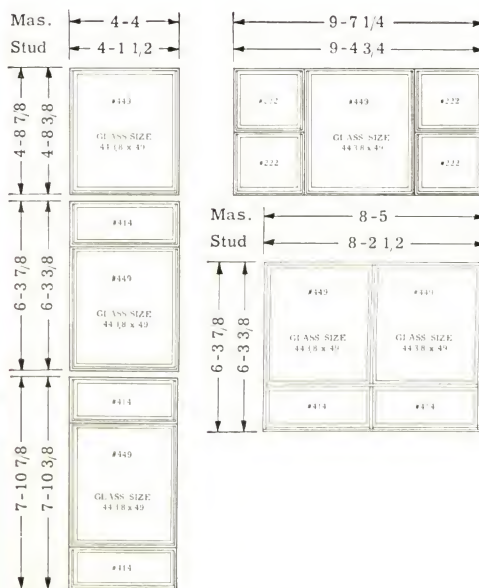
MAS OPG	2-10 1/8	3-8	3-11	4-4	5-6 1/2	7-1	7-7	8-5	8-1 1/8	10-6	11-3	12-6
RGH OPG	2-8 1/8	3-5 1/2	3-8 1/2	4-1 1/2	5-3 3/4	6-10 1/2	7-4 1/2	8-2 1/2	7-11 1/8	10-3 1/2	11-0 1/2	12-3 1/2
SASH OPG	2-4 1/8	3-2	3-5	3-10	5-0 1/2	6-7	7-1	7-11	7-7 1/8	10-0	10-9	12-0
	210	310	3010	410	21021	31021	301021	41021	21031	31031	301031	41031
	222	322	3022	422	22221	32221	302221	42221	22231	32231	302231	42231
	21012	31012	301012	41012	21022	31022	301022	41022	21032	31032	301032	41032
	22212	32212	302212	42212	22222	32222	302222	42222	22232	32232	302232	42232
	21013	31013	301013	41013	21023	31023	301023	41023	21033	31033	301033	41033
	22213	32213	302213	42213	22223	32223	302223	42223	22233	32233	302233	42233

## NEW FLEXIVIEW PICTURE UNITS ADD MORE FLEXIBILITY, ECONOMY TO FLEXIVENT LINE

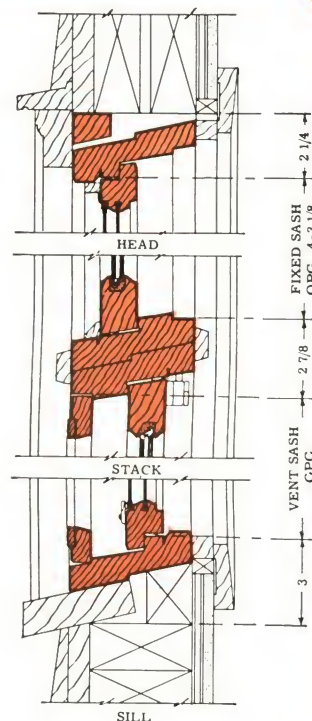
Addition of the new fixed sash Flexiview Picture Units to the Andersen Flexivent line brings even greater flexibility and economy to the popular Flexivent Window. The new Flexiview now makes possible the grouping of Flexivents into picture window combinations that make the Flexivent line truly complete.

Flexiview Units are precision made with the same frame members as Flexivents. They can be combined with either operating or fixed Flexivent Units to form WINDOWALLS with remarkably low over-all cost per square foot. This low cost is largely gained through the economy of a fixed opening's saving on screen and hardware.

Flexiview Picture Units are completely packaged units, factory-assembled and glazed either DS with quality window glass or with Andersen Welded Insulating Glass. Removable double glazing panels are furnished in the Flexiview sizes (optional).

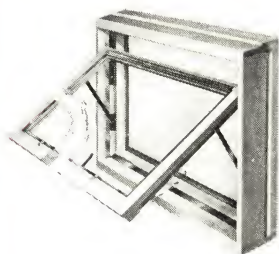


Shown above are some suggested combinations possible with the Andersen Flexiview Unit. Many different combinations can be forced to meet your needs. Note how large WINDOWALL openings can be formed where a greater amount of glass area is wanted. All opening dimensions shown are based on details shown elsewhere in this folder.

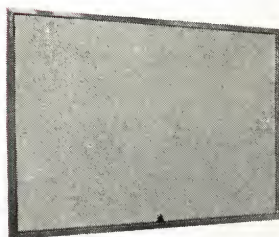


Above vertical section shows Flexiview Unit with operating Flexivent below. Flexiview frame and sash members are identical with Flexivent Unit.





Assembled Unit



Screen



Removable Double Glazing

**ASSEMBLED UNIT**—Pine frame assembled and all joints sealed with caulking compound. Weatherstripping applied and operating sash hung on sliding hinges. Protected with Andersen chemical preservative against moisture, decay and termites. Sash glazed with select quality window glass. Unit engineered so that it can be installed as inswinging hopper vent, outswinging awning vent, or as an outswinging casement, without altering frame, sash, or hardware.

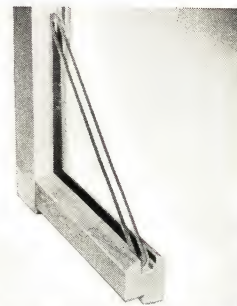
**SCREEN**—Choice of aluminum or wood frame screen with aluminum screen cloth. Locks applied, all necessary hinges, strike plates, screws, etc. furnished but not applied by Andersen.

**REMOVABLE DOUBLE GLAZING**—Aluminum frame with select quality window glass. Aluminum drip strip, fasteners, screws, etc. furnished but not applied by Andersen.

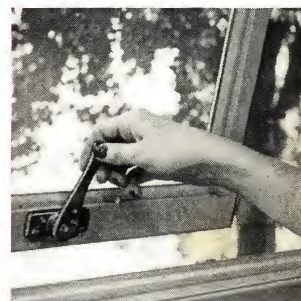
**WELDED INSULATING GLASS**—Sash available with welded insulating glass. Two panes of quality window glass hermetically sealed, with the edges electrically fused to make a perfect all glass seal, with no metal or other bonding material.

**SASH LOCK**—Rugged sash lock pulls sash rail tight against sill to insure positive contact with weatherstrip. On larger sizes, two locks (one at each end of sash rail) insure tight closing for weathertight seal.

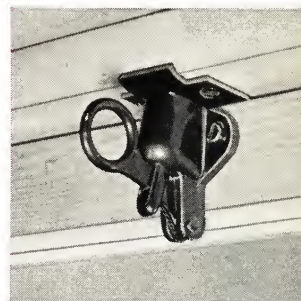
**SNAP LOCK**—Easy-to-install snap type sash lock is designed for hopper vent Flexivent sash located above normal reach. Can be operated with a hook or standard make window pole.



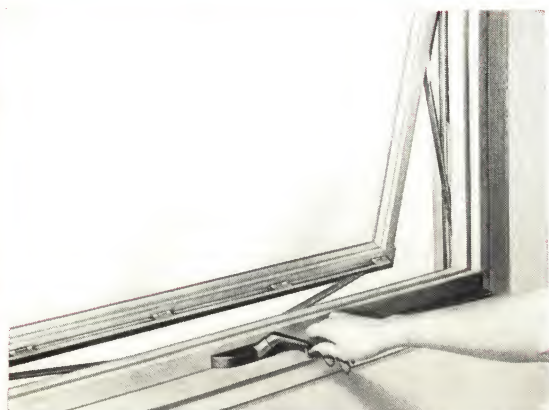
Welded Insulating Glass



Sash Lock



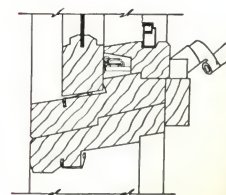
Snap Lock



## ROTO LOCK OPERATOR

### For Outswinging Awning Style Sash

A new under-screen operator for awning style ventilating units. The centrally located roto gear, dual arm operator provides positive control, snug corner closing and self locking in any position. Crank and housing have antique bronze lacquer finish. A special pine stop is furnished with each operator. Inside screens for use with this operator are furnished with aluminum frame only. This operator can be easily installed on existing awning style Flexivent installations.



#### STOP DETAIL

Special milled pre-fitted pine stop furnished with each Roto-Lock Operator. Detail shows how to trim out of transom section when using Roto-Lock Operator.



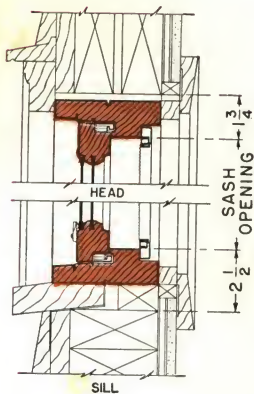
# Andersen Flexivent Window Units



## AS A BASEMENT WINDOW

The 200 Series Flexivent Unit sizes are especially suited for use as basement window units. The special filler piece at the top as shown in the detail is supplied as a part of the assembled unit. Any of the other Flexivent sizes can also be used in the same way if desired.

These modular sizes will fit typical 16x8 block walls for masonry openings 2 blocks wide by 2, 2½, 3 and 4 blocks high. Detail at left shows typical installation in concrete block wall with poured concrete sill. Detail at right is for poured walls.



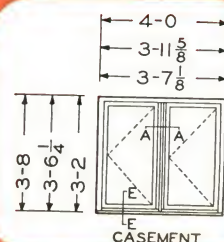
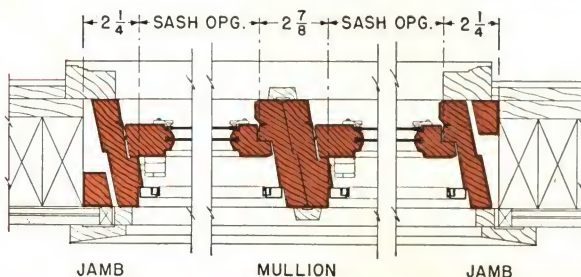
## AS OUTSWINGING CASEMENT

Flexivent Window Units can be installed in a vertical position with outward opening sash to form an excellent low-cost casement window unit. The regular side jambs form the sill and head jamb as indicated in the vertical section detail.

The regular head and sill members become side jambs as shown in the plan detail which also shows a mullion section formed by joining two units. See page 5 for sash opening sizes.

The plan detail shows the recommended method of joining to form a mullion unit with right-hand sash. If left-hand sash are preferred, simply install the unit in the reverse position.

**DO NOT INSTALL AS AN INSWINGING CASEMENT!**





## TYPICAL FLEXIVENT INSTALLATIONS IN SCHOOL AND HOUSING PROJECTS



Workmen install 9-light group of Flexivents in a new home. Group was assembled at shop and then trucked to the building site. This is a view of 350-house Green Acres Village, Buffalo, New York's largest development being built by Pearce & Pearce Co., Inc.



Interior view of model home in 60-house Westward Ho project going up in suburban St. Paul, Minnesota. Builder of Westward Ho is Donnay-Reitz, Inc. All homes are open plan construction allowing effective use of Flexiview Picture Window Combinations.



Large 32-sash groups of Unit No. 218 feature use of Flexivents in Holy Rosary School at Erskine Lakes, N. J. Architect is Brother Cajetan J. B. Baumann, O. F. M., A. I. A. Installation of fixed and operating sash give plenty of light and ventilation for classrooms.

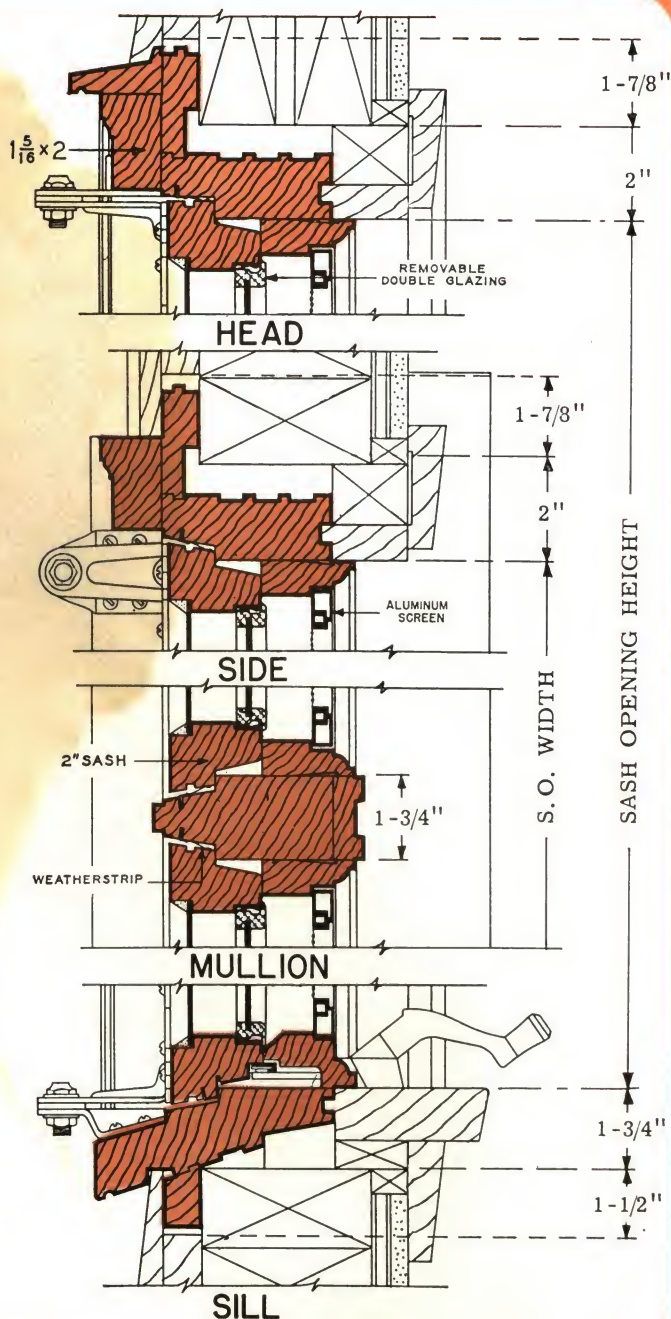


Newly completed homes in 450-house Chestnut Hill Estates, developed by Lee & Kornreich, Builders on the outskirts of Newark, Delaware. Notice extreme versatility of Flexivents for installation in groups, ribbons and stacks.



# Andersen Casement Windows

**C-10**—Installation of standard unit in frame wall. Note reversible windbreaks for either  $\frac{3}{4}$  or  $\frac{1}{2}$  inch sheathing. Plaster reveal inside finish can be used in place of extension jambs and casing trim. The same standard unit is used in all types of wall construction. Additional installation details furnished on request. Extension jambs and other trim members should be ordered separately to conform to individual requirements.



Scale—Three Inches Equal One Foot.

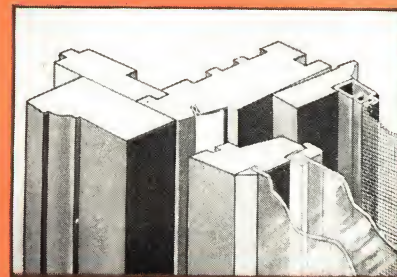
**THE ANDERSEN CASEMENT UNIT** combines advantages of weathertight wood construction with beauty of contemporary narrow line design. Full weatherstripping, double glazing and leakproof frame give exceptional window insulation. Precision manufacture means it's easy to operate, easy to install, highly weathertight, attractive in appearance.

**ENGINEERED FOR EFFICIENT SERVICE.** Extra thick 2" sash with reinforced corner joints mean sash cannot stick or bind. Compression weatherstrips assure tightness with free-and-easy operation. Ejecting lock releases sash, easily breaks paint bind. Holds sash firmly shut. Works independently of screen. Extension hinges permit easy washing of outside glass from inside. Roto-gear underscreen operator holds sash in any open position.

## COMPLETE UNIT INCLUDES:

FRAME • INSIDE STOPS • MULLION CASINGS • WEATHERSTRIPPING  
GLAZED SASH • COMPLETE HARDWARE FOR VENTILATING SASH  
INSIDE SCREEN (optional) • DOUBLE GLAZING (optional)

Section through jamb at right shows location of compression weatherstrip, removable double glazing on inside of sash and inside screen. Note sash construction with two point "refrigerator door" contacts and full  $\frac{1}{8}$ " clearance between sash and frame.



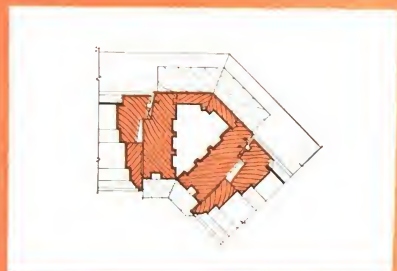
## Corner Window Detail — $\frac{1}{8}$ Scale

Angle iron or steel column can be used in place of 2x4's. Sash may be either swinging or stationary.



## Angle Bay Detail — $\frac{1}{8}$ Scale

Section through angle mullion made from standard units. Specify long sill horn for mitering. Exterior casings not furnished by Andersen.





## STOCK SIZES AND LAYOUTS

**GLASS SIZES**—For 1'6" sash, divided lights are 8x12 except in the 2'8-3/16" high sash which have 8x10 glass. Horizontal lights are 16 1/4 x 12 and 16 1/4 x 10. Single lights are 16 1/4 wide and the heights are as follows: 24-5/16, 30 1/2, 36 1/2, 48-11/16, 60 7/8. For the 1'10 1/2" sash, the glass is 20 3/4" wide. Heights are the same as for the 1'6" sash.

### SERIES N—1'6" WIDE

MAS. CPG	11 1/2	13-7	15-2 1/2	16-10 1/2	18-6 1/2
STUB CPG	11-0	13-5 1/2	15-1 1/2	16-9 1/2	18-5 1/2
SASH CPG	11-6	13-1 1/2	14-9 1/2	16-5 1/2	18-1
24 1/2	27 1/2	30 1/2	36 1/2	48 1/2	60 7/8
2511	4221	6231	8241	10251	
23101	43101	63101	83101	103101	
2311	4321	6331	8341	10351	
2411	4421	6431	8441	10451	
2511	4521	6531	8541	10551	

24 1/2	27 1/2	30 1/2	36 1/2	48 1/2	60 7/8
2512	4222	6232	8242	10252	
23103	43103	63103	83103	103103	
2313	4323	6333	8343	10353	
2414	4424	6434	8444	10454	
2515	4525	6535	8545	10555	

24 1/2	27 1/2	30 1/2	36 1/2	48 1/2	60 7/8
2514	4224	6234	8244	10254	
23110	43110	63110	83110	103110	
2316	4326	6336	8346	10356	
2418	4428	6438	8448	10458	
25110	45210	65310	85410	105510	

### SERIES W—1'10 1/2" WIDE

MAS. CPG	23 1/2	24-4	26-4 1/2	28-4	30-4 1/2
STUB CPG	22-2	24-2 1/2	26-3	28-3 1/2	30-3 1/2
SASH CPG	21-0	23-10 1/2	25-11	27-11 1/2	29-11 1/2
24 1/2	27 1/2	30 1/2	36 1/2	48 1/2	60 7/8
24027	44027	64027	84027	104027	
24030	44030	64030	84030	104030	
24037	44037	64037	84037	104037	
24047	44047	64047	84047	104047	
24057	44057	64057	84057	104057	

24 1/2	27 1/2	30 1/2	36 1/2	48 1/2	60 7/8
2427	4427	6427	8427	10427	
2430	4430	6430	8430	10430	
2437	4437	6437	8437	10437	
2447	4447	6447	8447	10447	
2457	4457	6457	8457	10457	

**GLASS**—Selected quality vision-tested glass used in all Andersen Casement sash and removable double glazing.

**SASH CAN BE FURNISHED** one light open on special order for glazing by others with obscure glass, leaded glass or other special glass up to 1/8 inch thick.

**SASH OPENING WIDTHS** are from jamb to jamb and include the 1 3/4" mullion posts for multiple openings.

**MASONRY OPENING** widths are figured from back edge of side brick moulding and heights from the top edge of head brick moulding to the bottom outside edge of the sill.

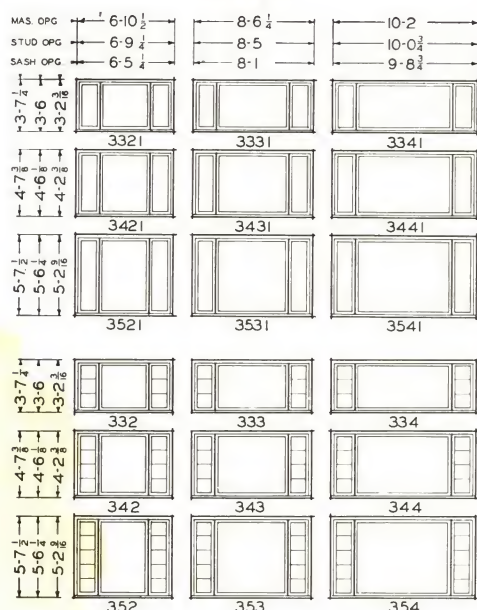
Sash may be swinging or stationary. Specify number of swinging sash in each unit and how they should be hinged as viewed from the outside. Also list the correct number of screens needed.



# Andersen Casement Units

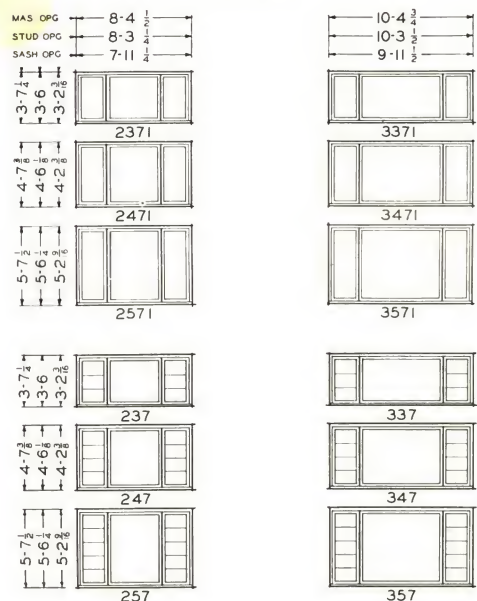
## STOCK SIZES AND LAYOUTS

### SERIES N



8 x 12 divided light flanking sash also available in Series N Picture Windows.

### SERIES W



## CASEMENT PICTURE WINDOW UNITS

Andersen Casement Picture Window Units offer the important advantage of adequate ventilation in combination with a view framing single light "picture" sash.

These units are assembled by Andersen distributors from stock parts, using the same frame members as those furnished for standard multiple sash casement units, except that the mullion posts are omitted for the picture sash opening.

The open stationary picture sash is designed for glazing by Andersen distributors with 1" thick Twin-dow or Thermopane insulating glass. Single glass can also be used.

See your Andersen dealer or near-by distributor for further information regarding other picture window arrangements which can be made up from stock parts, including picture sash without flanking casements or with ventilating casement sash on one side only—also window wall groupings of fixed picture sash with ventilating sash casement units.

TABLE OF SIZES FOR PICTURE SASH SERIES N

UNIT NO.*	SASH OPENING	GLASS RABBIT	EXACT GLASS SIZE FOR	
			1" INSULATING GLASS	1/4 INCH PLATE
332	3-1 3/4 x 3-2 3/16	35 15/16 x 36 1/2	35 1/2 x 36	35 3/4 x 36 1/4
333	4-9 1/2 x 3-2 3/16	55 11/16 x 36 1/2	55 1/4 x 36	55 1/2 x 36 1/4
334	6-5 1/4 x 3-2 3/16	75 7/16 x 36 1/2	75 x 36	75 1/4 x 36 1/4
342	3-1 3/4 x 4-2 3/8	35 15/16 x 48 11/16	35 1/2 x 48 3/8	35 3/4 x 48 1/2
343	4-9 1/2 x 4-2 3/8	55 11/16 x 48 11/16	55 1/4 x 48 3/8	55 1/2 x 48 1/2
344	6-5 1/4 x 4-2 3/8	75 7/16 x 48 11/16	75 x 48 3/8	75 1/4 x 48 1/2
352	3-1 3/4 x 5-2 9/16	35 15/16 x 60 7/8	35 1/2 x 60 3/8	35 3/4 x 60 5/8
353	4-9 1/2 x 5-2 9/16	55 11/16 x 60 7/8	55 1/4 x 60 3/8	55 1/2 x 60 5/8
354	6-5 1/4 x 5-2 9/16	75 7/16 x 60 7/8	75 x 60 3/8	75 1/4 x 60 5/8

\*NOTE—Sizes are the same for corresponding one light and divided light units.

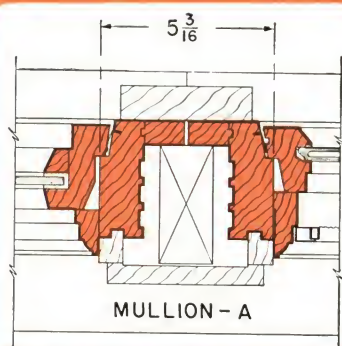
TABLE OF SIZES FOR PICTURE SASH SERIES W

UNIT NO.*	SASH OPENING	GLASS RABBIT	EXACT GLASS SIZE FOR	
			1" INSULATING GLASS**	1/4 INCH PLATE
237	3-10 3/4 x 3-2 3/16	44 15/16 x 36 1/2	44 1/2 x 36	44 3/4 x 36 1/4
337	5-11 x 3-2 3/16	69 3/16 x 36 1/2	68 3/4 x 36	69 x 36 1/4
247	3-10 3/4 x 4-2 3/8	44 15/16 x 48 11/16	44 1/2 x 48 3/8	44 3/4 x 48 1/2
347	5-11 x 4-2 3/8	69 3/16 x 48 11/16	68 3/4 x 48 3/8	69 x 48 1/2
257	3-10 3/4 x 5-2 9/16	44 15/16 x 60 7/8	44 1/2 x 60 3/8	44 3/4 x 60 5/8
357	5-11 x 5-2 9/16	69 3/16 x 60 7/8	68 3/4 x 60 3/8	69 x 60 5/8

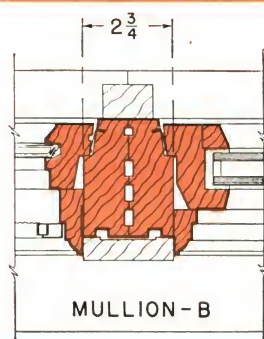
\*NOTE—Sizes are the same for corresponding one light.

\*\*Check with your Andersen dealer or distributor as to availability of these sizes.

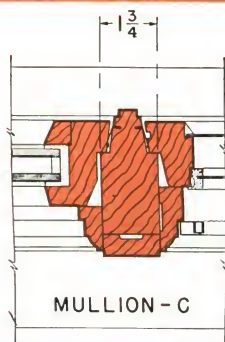




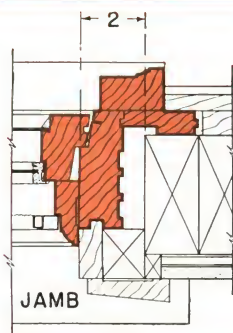
**MULLION A.** Used where load bearing structural members are needed.



**MULLION B.** Side jambs are joined back to back to form narrow mullions. Sill may be butted or scarfed.

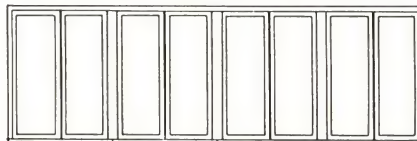


**MULLION C.** Standard mullion furnished by Andersen.

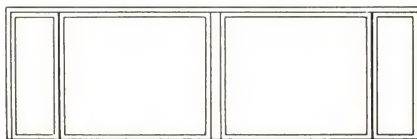


## COMBINING STANDARD UNITS FOR LARGE WINDOW WALL INSTALLATIONS

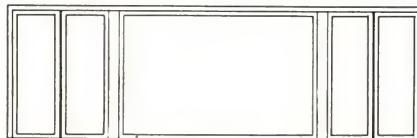
Series N	3-1 3/4	*	3-1 3/4	*	3-1 3/4	*	3-1 3/4
Series W	3-10 3/4		3-10 3/4		3-10 3/4		3-10 3/4



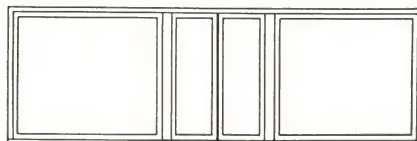
Series N	6-5 1/4	*	6-5 1/4
Series W	7-11 1/4		7-11 1/4



Series N	3-1 3/4	*	6-5 1/4	*	3-1 3/4
Series W	3-10 3/4		5-11		3-10 3/4



Series N	4-9 1/2	*	3-1 3/4	*	4-9 1/2
Series W	5-11		3-10 3/4		5-11



\*Either mullion A, B or C can be used. Be sure to use correct mullion dimension when figuring opening sizes.

**OVERALL SASH OPENING WIDTH.** The sum of the individual sash opening for each unit, plus 5-3/16" for each mullion A used, plus 2 3/4" for each mullion B used, and plus 1 3/4" for each mullion C used.

**ROUGH OPENING WIDTH.** Add 4" to overall sash opening.

**MASONRY OPENING WIDTH.** Add 5 1/4" to overall sash opening.

See your millwork dealer or nearby Andersen distributor for further information or write Andersen Corporation.



# Andersen Gliding Window Units

## FOR MODERN WINDOWALLS

Andersen Gliding Windows with horizontal sliding action allow wide range of sizes with ventilating sash—from ribbon type to large picture window openings for every room in the house. Ideal for enclosed porches and breezeways.

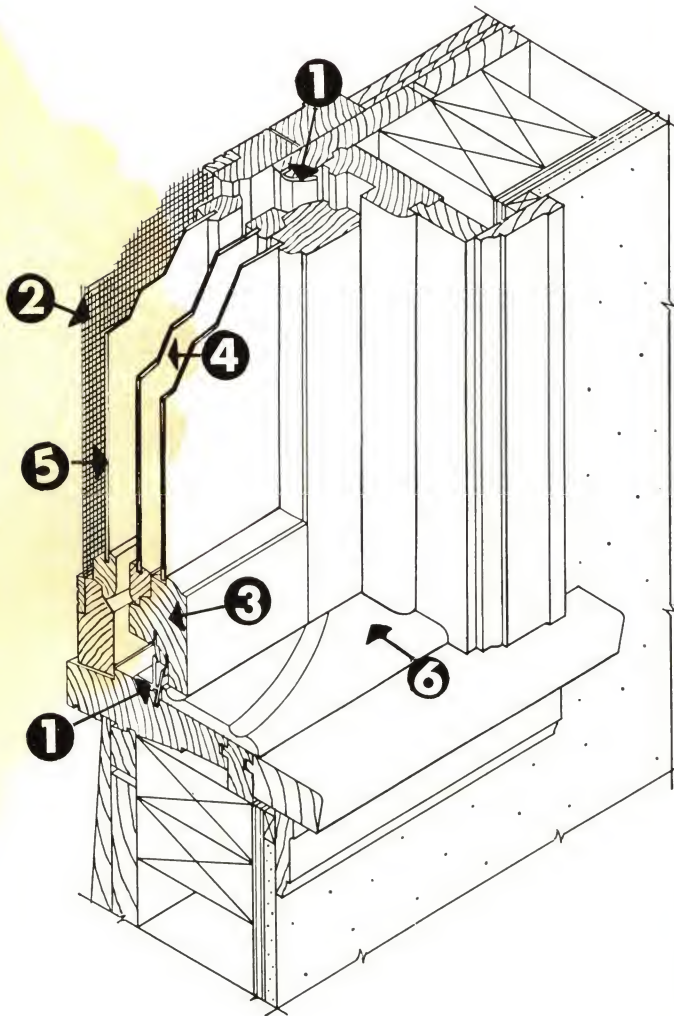
### NOTE THESE SUPERIOR FEATURES

1. **WEATHERSTRIPPING**—Compression and interlocking type completely installed. Double weatherstrip contact with metal sill channel.
2. **OUTSIDE SCREEN**—(Optional)—Pine frame, fine mesh Alcoa Alclad Aluminum wire cloth. Special hardware locks screen tightly on inside. Can be easily put on or removed from inside.
3. **SASH**— $1\frac{1}{2}$ " thick, quality glass bedded and glazed with elastic glazing compound, fitted and complete with hardware installed.
4. **DOUBLE GLAZING**—(Optional)—Wood frame, fits on outside of gliding sash, controls condensation and heat loss—can be left on year around—easily removed for cleaning.
5. **STORM-SCREEN FEATURE**—Double glazing panel also fits on inside of screen to make an outside storm sash for closing openings during rough construction—or for triple glazing to provide extra insulation against heat loss and condensation.
6. **PLASTIC SILL TRACK**—Makes sash operate smoother and easier. Has a permanent natural wood finish that cleans easily.

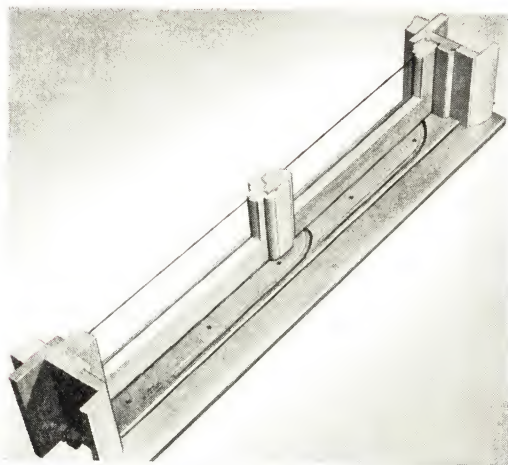
Frame is of leakproof construction with famous Andersen Lock Sill Joint and weather-tight blind stops. Complete hardware for sash, screen and double glazing. Iridite treated heavy zinc plating with statuary bronze finish on lock handle. Triple action lock draws sash tightly together at top, bottom and center.

### COMPLETE UNIT INCLUDES:

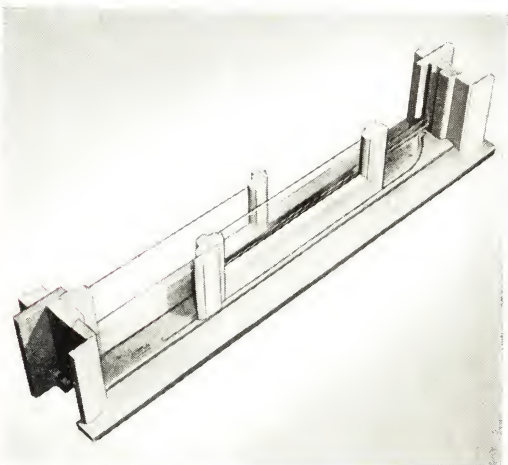
FRAME, NEW DESIGN • SASH • WEATHERSTRIPPING  
SCREEN (optional) • REMOVABLE DOUBLE  
GLAZING (optional), WITH FASTENERS INSTALLED  
COMPLETE HARDWARE • PLASTIC SILL TRACK  
PLASTIC FACED HEAD TRACK.







Here's how horizontal sliding action works. View from top of window shows that when closed, sash are in line in the same plane like a casement window. When open, right-hand sash glides on an inner track so sash pass by each other.



Sash is partly open. Note that right-hand sash has glided in its track so that it is passing by the other. Sash remain in any open position without rattling to provide excellent ventilation all through the house.

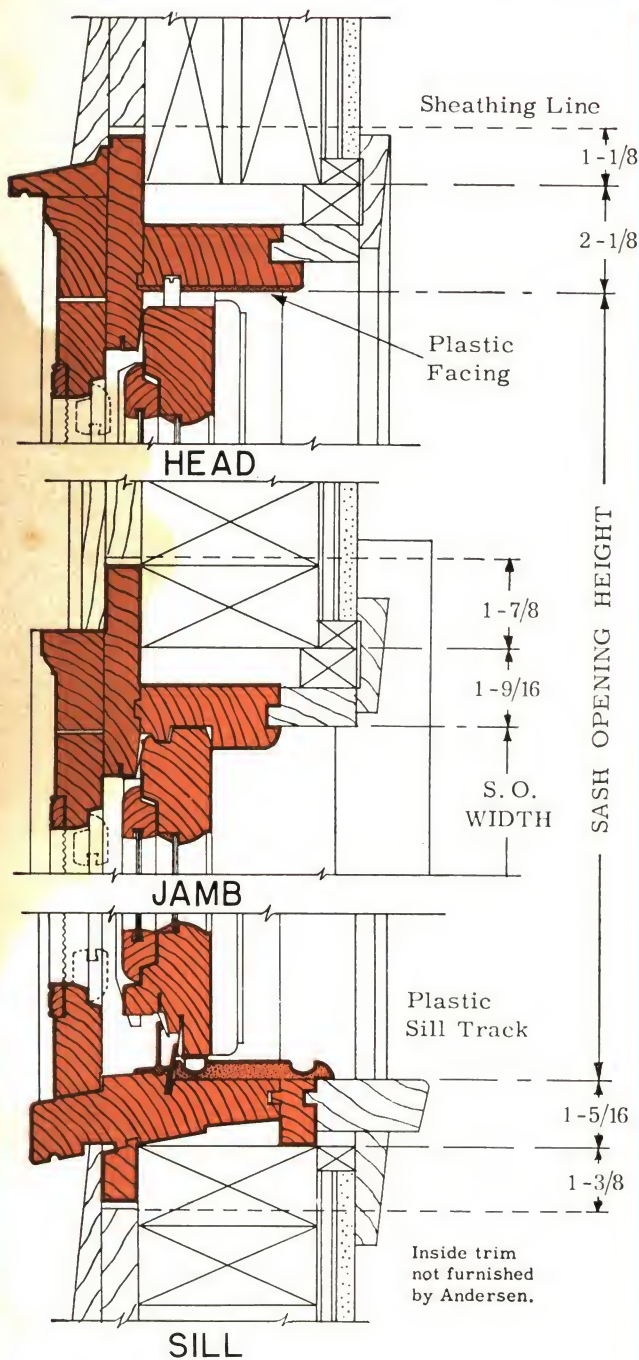


Sash are easily removed. No tools, no magic tricks needed. Simply slide either sash to full open position. Then lift up and pull slightly toward you. All outside glass surfaces can be easily and safely washed inside the home.



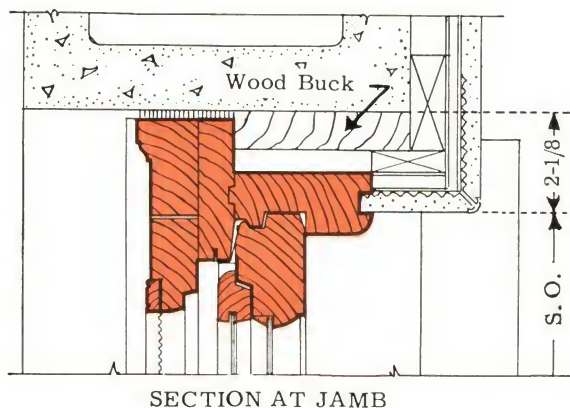
## Andersen Gliding Window

## INSTALLATION DETAILS

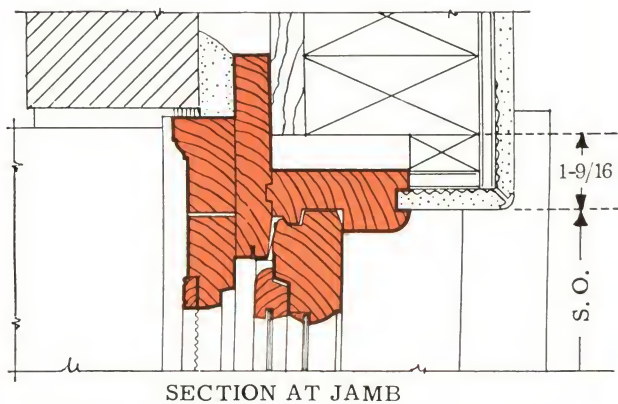


**G-10**—Standard unit in frame wall with lath and plaster inside finish and 3/4" sheathing. The extension blind stop can be rabbeted for 1/2" sheathing and this should be specified when ordering the unit. Extension jambs and other trim should be ordered separately to conform to individual requirements. Installation is similar for stucco or brick veneer or for dry wall inside.

Detail shows Removable Double Glazing panel in place on outside of sliding sash. This same panel also fits in rabbet on inside of the screen to provide an outside storm sash for closing openings during rough construction.



Detail shows standard unit in block wall. Note use of wood bucks anchored to block opening as recommended for all Andersen Window Units in masonry walls. Modular openings require  $\frac{3}{4}$ " thick wood bucks and extension blind stop must also be trimmed flush with brick moulding as shown in detail. Wood casing trim as shown in detail G-10 can be used in place of plaster reveal.

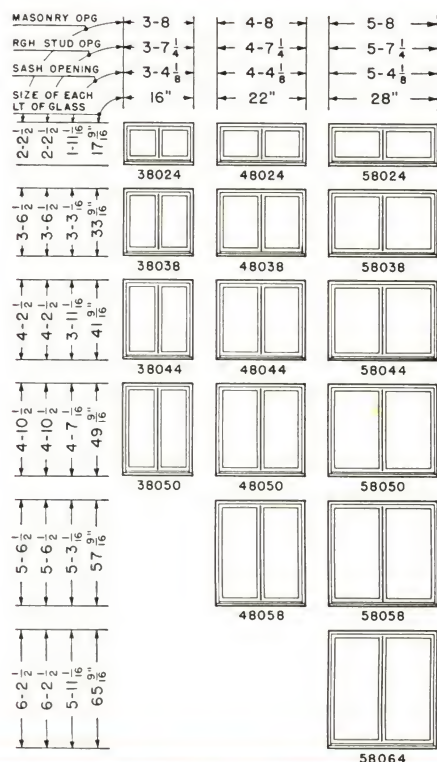


Detail shows installation of standard unit in brick veneer wall with windbreak outside of sheathing. Can also be set flush with sheathing. Note plaster reveal inside finish instead of casing trim as shown in detail at left.

**NOTE**—Complete 1/4 scale installation details will be found in the Tracing Detail File. This will be mailed on request.

**See Installation Specifications on page 23.**





### MODULAR SIZES

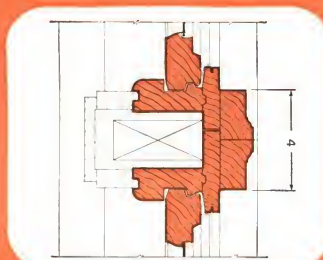
Sizes conform to the modular standards for masonry openings and glass lights are cut accordingly in order to maintain the 4-inch module. Masonry openings are exact overall unit dimensions. Widths are measured from back of brick mouldings and heights from top of brick moulding to bottom edge of sill. The masonry opening height dimensions are less than the modular opening to allow for the lintel and the slope of the masonry sill.

### MULTIPLE OPENINGS

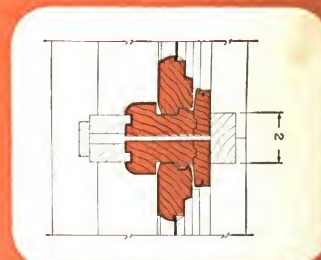
Multiple openings are formed by joining single units with side casings back to back and sill horns butt jointed to form 4-inch modular mullions, or jambs can be placed back to back to form a 2-inch narrow mullion as shown in detail below.

The overall masonry opening width for a multiple unit using the 4-inch modular mullion is the sum of the single masonry opening widths. For the overall rough stud opening width, deduct  $\frac{3}{4}$  inch from the overall masonry opening.

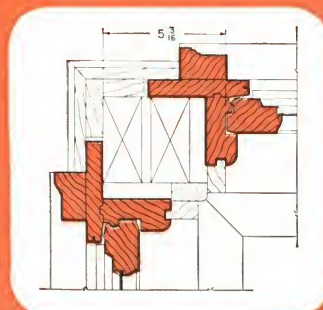
### ADAPTATION DETAILS



**STANDARD MULLION**—Detail shows 4-inch mullion made by placing two standard single units together with sill horns butt jointed and regular casings back to back.



**NARROW MULLION**—Where a load bearing support is not required, single units can be joined to form a 2-inch mullion as shown above.



**CORNER**—Detail shows corner construction with standard two-inch sill horns and casing. Long sill horns can be furnished for special corner casings.



**ANGLE BAY**—Detail shows 45° angle bay mullion using standard units with long sill horns and special outside casings (not furnished by Andersen).



# Andersen Pressure Seal Window

## THE COMPLETE DOUBLE HUNG WINDOW UNIT

with removable sash and sturdy Storm-Screen Combination

No other double hung window works like the Pressure Seal . . . with the invisible pressure strips that make the window highly weather-tight, that permit floating sash action, that make possible effortless removal of both sash.

You have never seen a double hung window

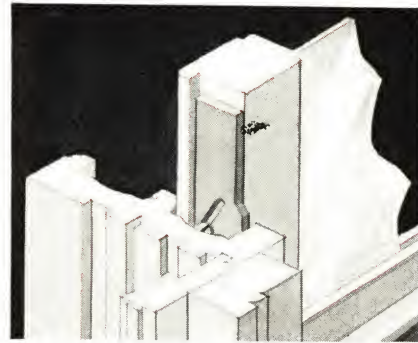
so easy to install and operate. With thumb levers depressed, sash float freely in sash runs. There just is no dragging friction to hinder movement. When levers are open, sash are held firmly in any open position. Metal-covered parting stop insures smooth operation.

### SASH LIFT RIGHT OUT



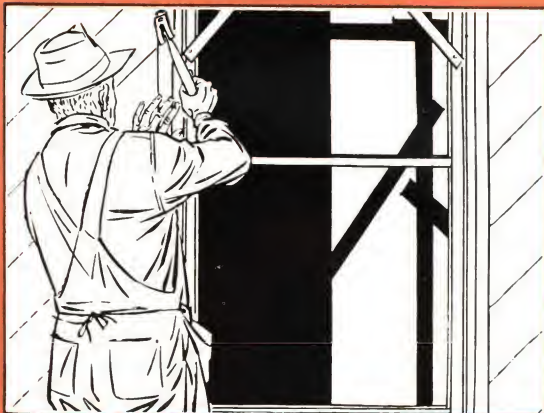
No strong-man tactics, no tools of any kind are required to remove the sash on Andersen Pressure Seal Windows. Sash are not hung on weights and chains, or connected to springs or balances. Simply depress thumb levers and open sash fully. Keep levers down. Slide sash easily to the left. It lifts out of the opening instantly, effortlessly. Both sash can be removed in seconds.

### PRESSURE STRIP HOLDS SECRET



Exclusive Pressure Strip Action is key to exceptional weathertightness, smooth sash action, and sash removability. Wedge-like action of aluminum pressure strips forces sash against metal covered parting stop. Closes cracks and eliminates necessity for conventional weatherstrip on sides. Sash are completely free when thumb levers are depressed, held tight when levers are released.

## QUICK AND EASY INSTALLATION REDUCES FINAL COSTS



NAIL FRAME IN ROUGH OPENING

The frame is set in rough openings and held in place by nailing wide blind stop to studs. A weathertight wall joint is assured.

Sash come complete with pressure strips, weatherstripping and operating mechanism installed, ready to be slipped in place from the inside. No weights to



SLIP SASH INTO PLACE

hang. No counterbalancing devices to install.

The standard frame detail can be used in any type of wall. The moulded inside stop on the side jamb greatly simplifies trimming out. A special fitted stool is included and only a simple inside casing or band moulding is required to complete the job.



# Andersen Pressure Seal Units

## INSTALLATION DETAILS—SCALE 3" = 1' 0"

Details show installation in standard frame wall with reversible wide blind stop in proper position for  $\frac{3}{4}$ " sheathing. Position is reversed for  $\frac{1}{2}$ " sheathing. Installation is the same in brick veneer wall with blind stop flush with sheathing.

Standard left and right-hand jambs are furnished for mullion posts. The deep sash run in right-hand jamb is required for sash removal. Note how moulded inside stops form a mullion casing. Regular casing can be added if desired.

### THE COMPLETE UNIT INCLUDES:

**FRAME**—Special leakproof construction with reversible wide blind stop, and under-sill windbreak. Also includes combination inside stop and trim member.

**SASH**— $1\frac{1}{2}$ " thick, glass bedded and glazed with elastic glazing compound.

**GLASS**—Selected quality vision tested glass.

**PRESSURE STRIPS** — Installed in sash at factory.

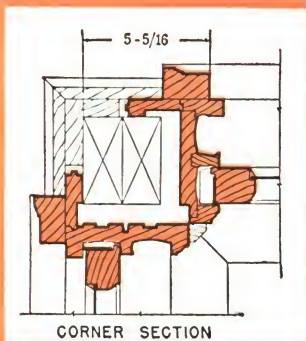
**WEATHERSTRIPS**—Check and bottom rail strips attached to sash.

**OPERATING MECHANISM** — Installed in sash at factory.

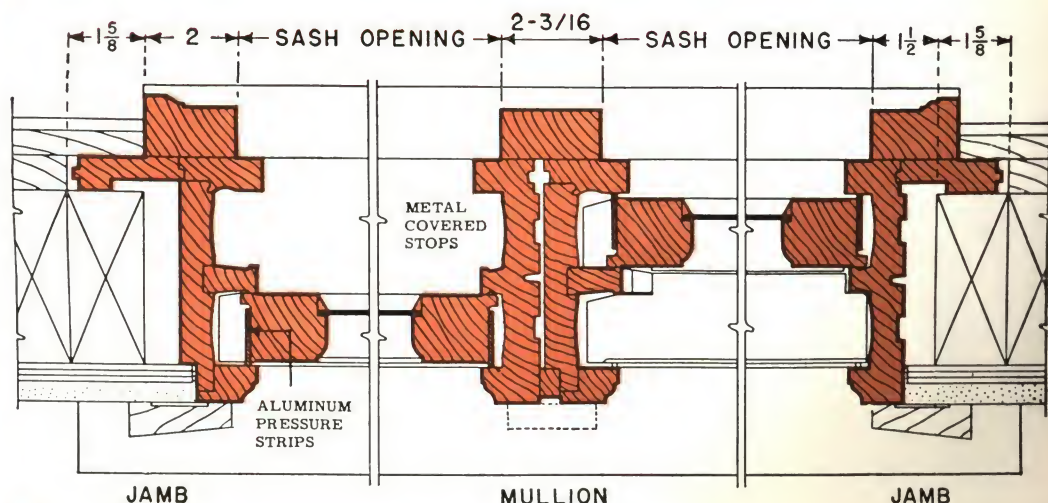
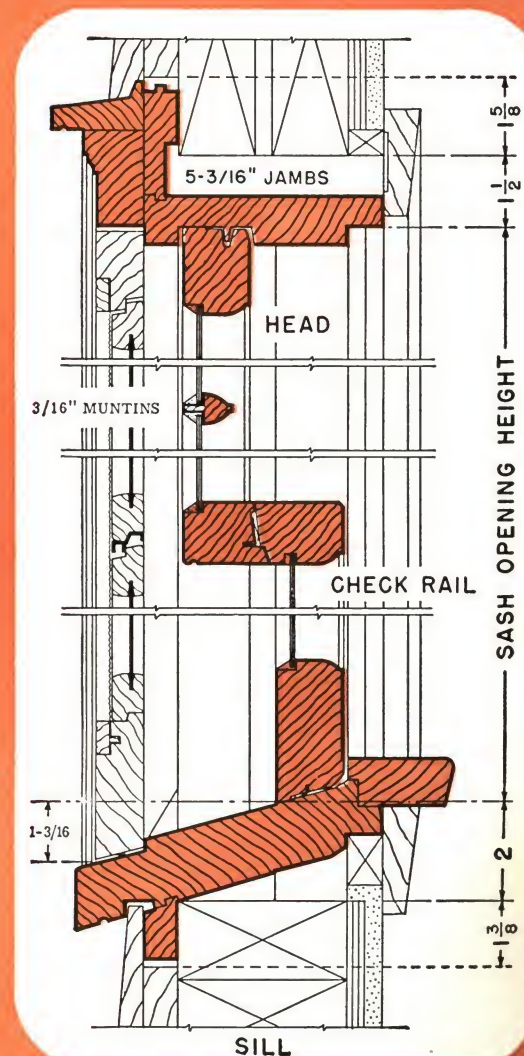
**STOOL**—Clear Pine,  $2\frac{1}{4}$ " width only.

**COMBINATION STORM-SCREEN** (Optional) See page 20.

Exposed wood parts treated with Andersen Chemical Preservative and Water Repellent Solution.












Detail shows corner construction with standard 2-inch casing and regular sill horns. Long sill horns can be furnished on special order for use with special corner casings (not furnished by Andersen).





# Andersen Pressure Seal Units

Glass sizes shown for Types 61 and 81 are for bottom sash only. SEE TYPES 66 and 88 for glass sizes in top sash.

WINDOW TYPES											
SASH OPENING	ROUGH STUD OPENING	MASONRY OPENING	GLASS SIZE	GLASS SIZE	GLASS SIZE	GLASS SIZE	GLASS SIZE	GLASS SIZE	GLASS SIZE	GLASS SIZE	GLASS SIZE
2-0x3-2 3-10 4-2 4-6 5-2 5-6	2-3½x3-5½ 4-1½ 4-5½ 4-9½ 5-5½ 5-9½	2-4x3-6¾ 4-2¾ 4-6¾ 4-10¾ 5-6¾ 5-10¾	20½x16¼ 20¼ 22¼ 24¼ 28¼	20½x8 10 11 12 14	6¾x8 10 11 12 14		20½x16¼ 20¼ 22¼ 24¼ 28¼		20½x12	6¾x12	
2-4x3-2 3-10 4-2 4-6 5-2 5-6	2-7½x3-5½ 4-1½ 4-5½ 4-9½ 5-5½ 5-9½	2-8x3-6¾ 4-2¾ 4-6¾ 4-10¾ 5-6¾ 5-10¾	24½x16¼ 20¼ 22¼ 24¼ 28¼	24½x8 10 11 12 14	8x8 10 11 12 14		24½x16¼ 20¼ 22¼ 24¼ 28¼		24½x12	8x12	
2-8x3-2 3-10 4-2 4-6 5-2 5-6	2-11½x3-5½ 4-1½ 4-5½ 4-9½ 5-5½ 5-9½	3-0x3-6¾ 4-2¾ 4-6¾ 4-10¾ 5-6¾ 5-10¾	28½x16¼ 20¼ 22¼ 24¼ 28¼	28½x8 10 11 12 14	9½x8 10 11 12 14		28½x16¼ 20¼ 22¼ 24¼ 28¼		28½x12	9½x12	
3-0x3-2 3-10 4-2 4-6 5-2 5-6	3-3½x3-5½ 4-1½ 4-5½ 4-9½ 5-5½ 5-9½	3-4x3-6¾ 4-2¾ 4-6¾ 4-10¾ 5-6¾ 5-10¾	32½x16¼ 20¼ 22¼ 24¼ 28¼	32½x8 10 11 12 14		7½x8 10 11 12 14		32½x16¼ 20¼ 22¼ 24¼ 28¼	32½x12		7½x12
3-4x3-2 3-10 4-2 4-6 5-2 5-6	3-7½x3-5½ 4-1½ 4-5½ 4-9½ 5-5½ 5-9½	3-8x3-6¾ 4-2¾ 4-6¾ 4-10¾ 5-6¾ 5-10¾	36½x16¼ 20¼ 22¼ 24¼ 28¼	36½x8 10 11 12 14		8½x8 10 11 12 14		36½x16¼ 20¼ 22¼ 24¼ 28¼	36½x12		8½x12

**ROUGH STUD OPENING FOR MULTIPLE UNITS**—Add sash opening widths plus 2-3/16 inches for each mullion—then add 3½ inches to this figure for overall rough opening width.

**MASONRY OPENINGS FOR MULTIPLE UNITS**—Add sash opening widths plus 2-3/16 inches for each mullion—then add 4 inches to this figure for overall masonry opening width.

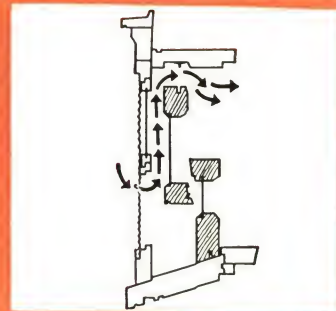
**NOTICE TO BUILDERS**—Sheathing should be applied before frames are installed. Be sure to make proper allowance for the extension blind stop as indicated on Installation Details.



**THE ANDERSEN STORM-SCREEN COMBINATION** (optional) comes complete. Full length fitted screen, aluminum screen cloth, hanging hardware and adjusters (not installed), two storm panels with fasteners applied.



**EASY TO CHANGE!** Lightweight storm panels fit easily into recessed screen. Never any stretching or struggling. Storm panels slip effortlessly into place from inside. Storm-Screen change is complete in less than a minute!

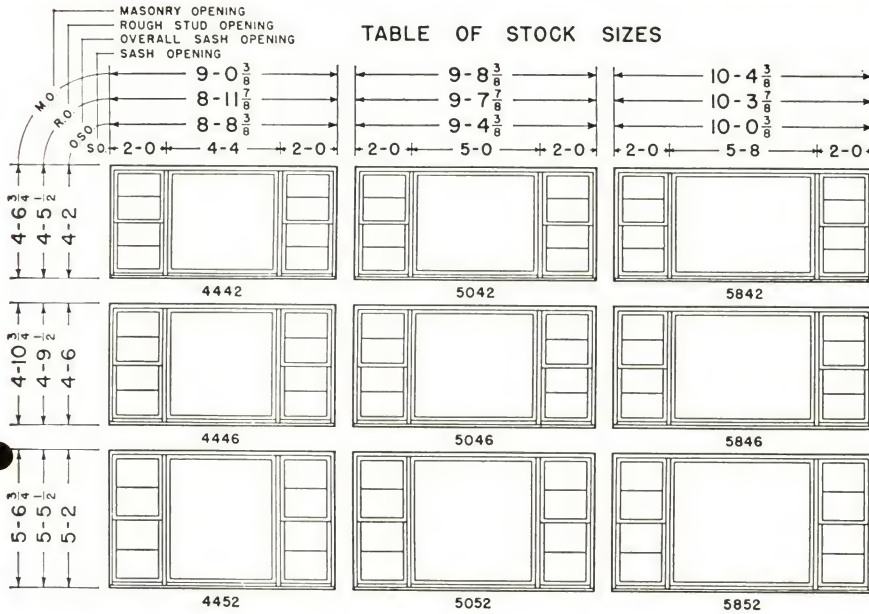


**RAINY WEATHER VENTILATION**—Upper storm panel can be left in place to provide ventilation during rain or long absences from home. Helps avoid rain damage to walls or plaster. Means one less panel to change and store.



## PICTURE WINDOW UNITS

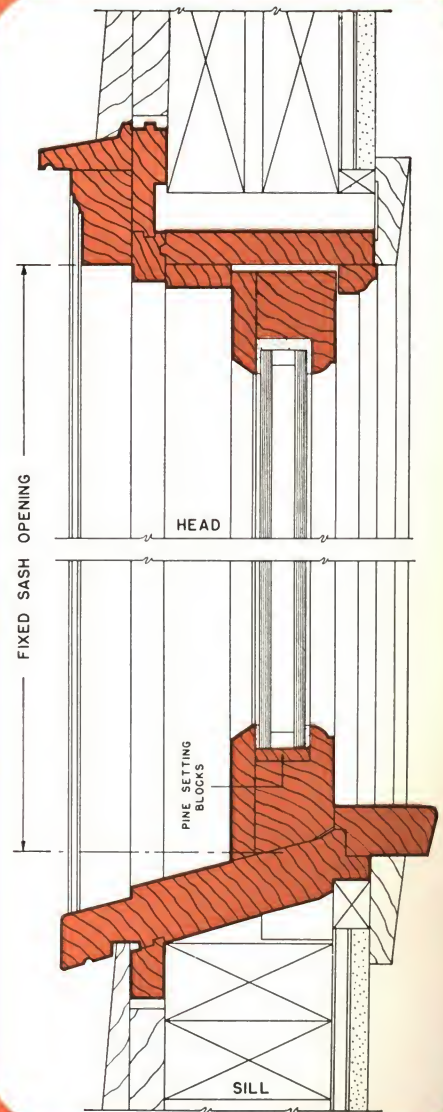
TABLE OF STOCK SIZES



Side units also furnished in glass layouts 61, 66 and 11.

TABLE OF SIZES FOR PICTURE WINDOWS

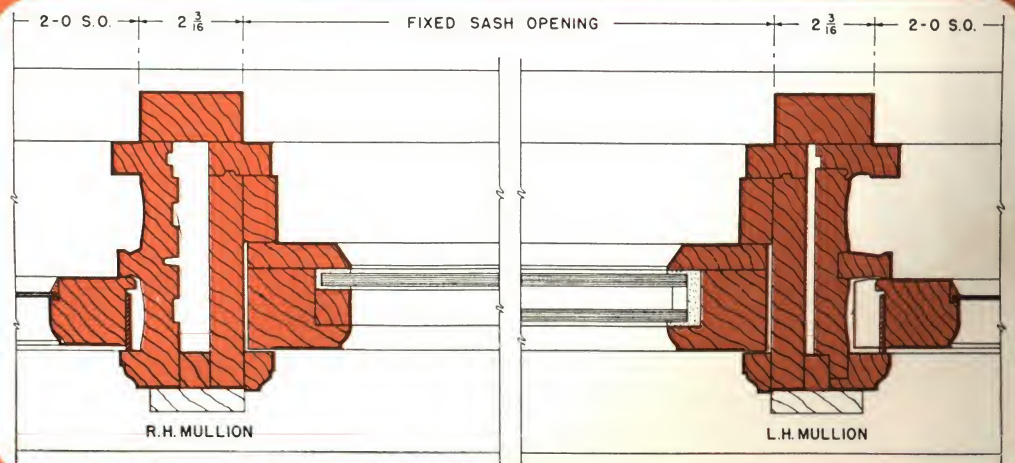
UNIT NO.	GLASS RABBET	EXACT GLASS SIZE FOR	
		THERMOPANE OR TWINOW	1/4 INCH PLATE
4442	49 x 46 1/2	48 1/2 x 46	48 3/4 x 46 1/4
5042	57 x 46 1/2	56 1/2 x 46 1/8	56 3/4 x 46 1/4
5842	65 x 46 1/2	64 1/2 x 46	64 3/4 x 46 1/4
4446	49 x 50 1/2	48 1/2 x 50	48 3/4 x 50 1/4
5046	57 x 50 1/2	56 1/2 x 50	56 3/4 x 50 1/4
5846	65 x 50 1/2	64 1/2 x 50	64 3/4 x 50 1/4
4452	49 x 58 1/2	48 1/2 x 58	48 3/4 x 58 1/4
5052	57 x 58 1/2	56 1/2 x 58 1/8	56 3/4 x 58 1/4
5852	65 x 58 1/2	64 1/2 x 58	64 3/4 x 58 1/4



The stationary picture window sash is designed for either single or double glazing as shown in plan detail, including Thermopane or Twinow one inch thick. This sash is furnished without glass by Andersen.

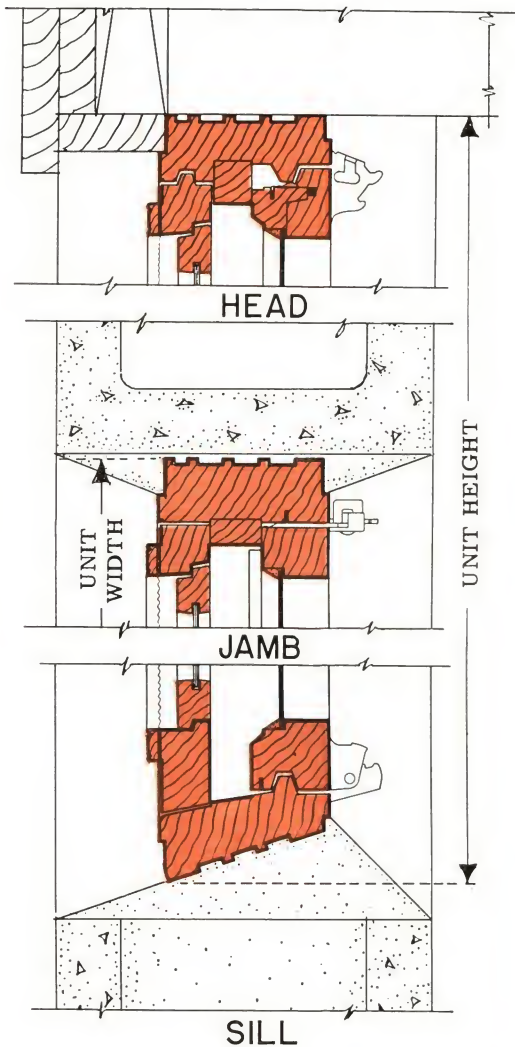
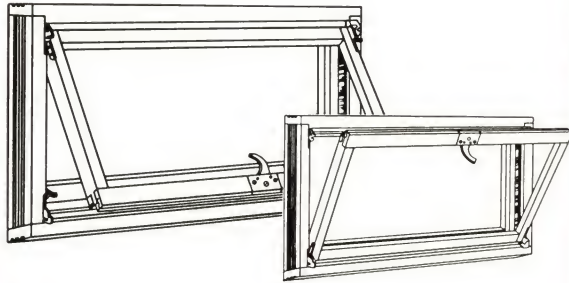
Standard Pressure Seal Double Hung Units are furnished for the side openings in the 2'0" sash opening width only. Inside casings and apron shown on detail not furnished by Andersen.

Scale 3" = 1'0"





# Andersen Basement Units



**DETAIL B-40.** Shows typical installation in concrete block wall with poured sill.

A practical and widely used factory assembled wood basement window that successfully combines the weathertight and insulating advantages of wood windows with the large glass areas and quick installation of metal basement windows.

Comes as a complete, factory assembled unit with frame set-up, sash glazed and hung, screen fitted and installed and all hardware installed.

## REVERSIBLE SASH

Dual purpose hinges permit swinging the sash from either top or bottom. Hinge members for both positions are attached and sash can be instantly reversed or removed without tools.

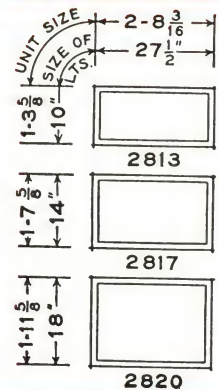
## THE COMPLETE UNIT INCLUDES

FRAME • GLAZED SASH • WEATHERSTRIPPING • SCREEN  
HARDWARE • STORM PANEL (if specified) • CHEMICAL  
PRESERVATIVE TREATING

## MODULAR SIZES

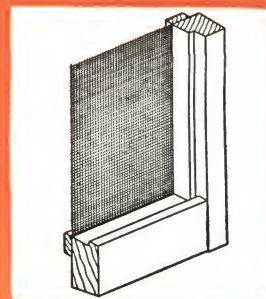
Sizes have been standardized to fit typical 16 x 8 inch block walls for masonry openings 2 blocks wide by 2, 2½ and 3 blocks high.

Modular sizes include one width and three heights, all glazed one light.

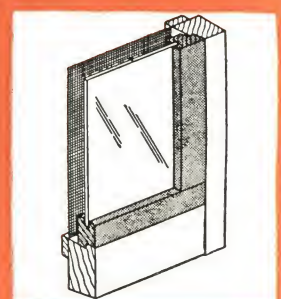


## NEW STORM-SCREEN FEATURE

The screen now furnished with the Basement-Utility Unit is rabbeted to receive a glazed storm panel that goes on from the inside. This replaces the outside storm sash and comes with fasteners attached.



Corner section of screen showing rabbet for glazed storm panel.



Sectional view showing storm screen with storm panel in place (optional equipment).



# Andersen Installation Information

## THE IMPORTANCE OF PROPER INSTALLATION

An outstanding development in the home building field is the improvement in residential fenestration, as exemplified by the factory fabricated complete window unit. Andersen Corporation pioneered the development of these window units complete with factory glazing, weatherstripping, insulating glass and operating hardware, and are today producing some of the finest window units available. All parts are precision manufactured and fitted and these window units are designed and engineered to give many years of satisfactory service to homeowners.

Proper installation and maintenance, however, is an important factor in the successful use of factory fabricated

complete window units. Builders can save themselves a lot of time and trouble, as well as call-backs for refitting and adjustments by handling Andersen Window Units the same as any other precision manufactured product, and by carefully observing a few simple instructions.

Andersen Wood Window Units are easy to install and they save the builder a lot of time and expense, but it is important that builders realize that different techniques and methods are required than for the old style site fabricated windows. Written Installation Specifications are highly desirable and we offer the following suggestions and recommendations for the guidance of specification writers.

## GENERAL RECOMMENDATIONS

The following recommendations and suggestions apply to all Andersen Units.

**1. Leading joints and priming frame**—White leading the joints between sill and side jambs when setting up the frame is recommended, also painting the frame parts with at least a priming coat.

**2. Paint sash BEFORE rough construction**—Sash that are hung in the units before installation in the wall opening, as in the case of the Andersen Casement and Flexivent Units, should be given at least two coats of paint before or immediately following installation, as a protection against damage from dirt and moisture during rough construction and while the house is drying out following plastering.

**3. Keep removable sash out of opening**—The removable sash of the Andersen Gliding and Pressure Seal Units should be painted out of the opening and should not be installed until the job is ready for inside trim. Openings can be closed with storm sash, combination storm-screens or the screen covered with Celloglass or similar material.

**4. Lap paint onto glass**—When painting the outside of the sash, the putty should be painted and the paint lapped slightly onto the glass.

**5. Keep paint off weatherstrips**—Metal weatherstrips should not be painted and should be carefully cleaned if paint gets on them.

**6. Adequate headers**—Rough openings should be framed with adequate headers and supports so as to avoid any pressure on the window unit from overhead loads. This is especially important in framing for the Gliding Unit and the Casement Picture Window Unit.

**7. Keep unit plumb and square**—When installing the

window unit in the rough opening, care should be taken to see that it is plumb and square. Also, be careful to avoid crowding the jambs and sill with plaster, blocking, insulation or anything that might cause inward bowing. It is recommended that bracing be left on until ready to apply inside trim.

**8. Protection during plastering**—Unless the window units are properly protected, considerable damage may be caused by spattering and droppings during plastering. Chemicals in the plaster, if left on the hardware, will discolor and scratch the finish, often to the point where it cannot be restored. Plaster is also difficult to clean from wood muntin bars and other wood parts, and plaster damage often adds considerably to the cost of finishing the window units.

We recommend that the opening be completely covered with a cloth or some translucent material such as Cello-glass. *The saving in cleaning and finishing the unit will more than pay for the cost of such protection.*

**9. Check unit before trimming out**—Just before applying finish trim, the contractor should check all openings and make sure sash and frame are true and square and operate properly. Blocking and plumbing and any necessary adjustments to insure proper sash operation can be easily made at this stage. Damaged or missing parts should be repaired or replaced at this time.

**10. FINAL INSPECTION**—Before turning the job over to the owner, a few minutes spent on each unit cleaning up weatherstripping and checking for proper contacts, also checking operating hardware, will pay good dividends in consumer satisfaction and may avoid troublesome call-backs later on. Cleaning up excess paint and plaster and a little wax applied to the right places will work wonders in restoring the original "factory" operation to balky window units.

## INSTALLATION AND MAINTENANCE MANUALS

These manuals give complete instructions for the proper installation and maintenance of Andersen Window Units. They are supplied to dealers and distributors to be furnished with each job or otherwise distributed to all interested parties.

Andersen Corporation assumes full responsibility for suit-

able materials and accurate manufacture according to details and specifications. Further responsibility must necessarily depend on the full cooperation of the architect, building contractor and homeowner in seeing that these installation and maintenance instructions are carefully observed.



# Andersen Distributors

**Andersen Window Units are available to established lumber and millwork dealers from the warehouse stocks of the following wholesale distributors.**

## ALABAMA

BIRMINGHAM—Birmingham Sash & Door Co., 901 North 28th St.

## CALIFORNIA

OAKLAND—Mill Built Distributors, Inc., 2500 Union St., Twin Oaks; 3-5535  
SANTA ANA—Coast Millwork, 1012 Fuller St., Box 1911

## COLORADO

DENVER—The Denver Reserve Supply Co., 901 Wazee St.  
DENVER—Richardson Lumber Co., 601 West 48th Ave.  
PUEBLO—Richardson Lumber Co., No. Freeway at 22nd St.

## CONNECTICUT

ANSONIA—Cleary Millwork Co., Inc., 126 Canal Street  
NEW HAVEN—Brockway-Smith-Haigh-Lovell Co., Box 133

## DELAWARE

WILMINGTON—Morgan Millwork Co.

## DISTRICT OF COLUMBIA

WASHINGTON, D.C.—Morgan Millwork Co., 1401 S. Fern St., Arlington, Va.

## FLORIDA

JACKSONVILLE—Huttig Sash & Door Co., 2303 Market St.

## ILLINOIS

CHICAGO—Associated Door & Plywood Co., 2141 South Throop St.  
CHICAGO—Morgan Sash & Door Co., 2287 Blue Island Ave.  
CHICAGO—Roberts Sash & Door Co., 920 West Cullerton St.  
DECATUR—Morgan Sash & Door Co., 3200 No. 22nd St.  
PEORIA—Wahlfeld Mfg. Co., 1101 South Washington  
ROCK ISLAND—Rock Island Millwork Co., 2525 Fourth Ave.

## INDIANA

GOSHEN—Goshen Sash & Door Co.  
INDIANAPOLIS—Midland Building Industries, Inc., 907 E. Michigan St.

## IOWA

CEDAR RAPIDS—Williams & Hunting Co.  
MASON CITY—Mason City Millwork Co., Inc.

## KANSAS

WICHITA—United Sash & Door Co.

## KENTUCKY

LEXINGTON—Combs Lumber Co., Box 359  
LOUISVILLE—Huttig Sash & Door Co., 1735 W. Burnett Ave.

## LOUISIANA

ALEXANDRIA—Davidson Sash & Door Co., Inc.  
BATON ROUGE—United Sash & Door Co., P.O. Box 961.  
LAFAYETTE—Davidson Sash & Door Co., Inc.  
LAKE CHARLES—Davidson Sash & Door Co., Inc.  
NEW ORLEANS—New Orleans Sash & Door Co., 1212 South Roman St.

## MAINE

PORTLAND—Brockway-Smith-Haigh-Lovell Co.

## MARYLAND

BALTIMORE—Morgan Millwork Co., 129 W. North Ave.

## MASSACHUSETTS

BOSTON—Brockway-Smith-Haigh-Lovell Co., 465 Medford St., Charlestown District  
SPRINGFIELD—Brockway-Smith-Haigh-Lovell Co., Box 1129  
SPRINGFIELD—Martin Lumber Co., 983 Page Blvd.

## MICHIGAN

DETROIT—Kimball & Russell, Inc., 2127 Fenkell Ave.  
FLINT—Flint Sash & Door Co., Inc., East Side Station, Box 6146  
GRAND RAPIDS—Grand Rapids Sash & Door Co., 1453 Buchanan Ave. S.W.  
KALAMAZOO—Grand Rapids Sash & Door Co.  
LANSING—Grand Rapids Sash & Door Co., 1300 Turner St.  
SAGINAW—Flint Sash & Door Co., 2429 Holland Avenue  
TRAVERSE CITY—Grand Rapids Sash & Door Co.

## MINNESOTA

DULUTH—The Radford Company, Box 215  
DULUTH—Scott-Graff Company  
MINNEAPOLIS—E. E. Bach Millwork Co., 3121 Hiawatha Ave.  
ST. PAUL—Pacific Mutual Door Co., Pillsbury & Territorial Rd.

## MISSISSIPPI

JACKSON—Jackson Sash & Door Co.

## MISSOURI

KANSAS CITY—American Sash & Door Co., Benton Plaza & Bellefontaine  
ST. LOUIS—Huttig Sash & Door Co., 8900 Page Blvd.

## MONTANA

BILLINGS—Building Service, Inc.  
GREAT FALLS—Building Service, Inc., 925 8th Ave. North  
MILES CITY—Richland Lumber Co.

## NEBRASKA

OMAHA—Disbrow & Co., 12th & Nicholas Streets

## NEW JERSEY

GLOUCESTER CITY—J. R. Quigley Co., 811 Market Street  
HARRISON—Bosman & Casson, 4th St. & Railroad Avenue  
MIDLAND PARK—Black Millwork & Lumber Co., Inc.  
NEWARK—Whittier Lumber & Millwork Co., 27-49 Haynes Ave.  
ROSELLE—Reeb Millwork Co.

## NEW YORK

ALBANY—Iroquois Millwork Corp., Mill St. at Tivoli  
ALBANY—Robbins Door & Sash Co., Railroad Ave., P.O. Box 5063  
BETHPAGE, L.I.—Sturtevant Millwork & Lumber Corp.  
BUFFALO—Iroquois Door Co., Exchange & Larkin Streets  
BUFFALO—The Whitmer-Jackson Co., Inc., 367 Hamburg St.  
ITHACA—Robbins Door & Sash Co., 416 Taughannock Blvd.  
MEDINA—The Whitmer-Jackson Co., Inc.  
MIDDLETOWN—Robbins Door and Sash Co.  
ONEONTA—Robbins Door and Sash Co.  
OZONE PARK, L.I.—Hussey-Williams Co., Inc., 90-15 95th Ave.  
ROCHESTER—The Whitmer-Jackson Co., Inc., 534 Broad St.  
SYRACUSE—Iroquois Door Co., Fourth North at Hiawatha

## NORTH CAROLINA

CHARLOTTE—Huttig Sash & Door Co., 1018 Jay Street

## NORTH DAKOTA

BISMARCK—Bardwell-Robinson Co.  
BISMARCK—Builders Supply Co.  
FARGO—Bardwell-Robinson Co.

## OHIO

CINCINNATI—Acme Sash & Door Co., 1250 Tennessee Ave.  
CINCINNATI—Cincinnati Sash & Door Co., 4500 Reading Road (29)  
CLEVELAND—The Whitmer-Jackson Co., Inc., 1996 West Third St.  
COLUMBUS—Huttig Sash & Door Co., 902 W. Goodale St.  
DAYTON—Dayton Sash & Door Co., 8 Norwood Avenue  
DAYTON—Ohio City Sash & Door Co., 721 Germantown St.  
TOLEDO—Allen A. Smith Co., 1216 W. Bancroft St.  
YOUNGSTOWN—The Whitmer-Jackson Co., Inc., 3650 Connecticut Avenue

## OKLAHOMA

TULSA—General Sash & Door Co., Box 2707

## OREGON

SALEM—Oregon Pulp & Paper Co., Lumber Division

## PENNSYLVANIA

ALLENTOWN—Robbins Door & Sash Co.  
BETHLEHEM—Reeb Millwork Corp.  
CRESSONA—J. R. Quigley Co.  
FRACKVILLE—Robbins Door & Sash Co.  
HARRISBURG—Morgan Millwork Co.  
HARRISBURG—J. R. Quigley Co.  
LANCASTER—J. R. Quigley Co.  
PHILADELPHIA—J. R. Quigley Co., 2867 E. Allegheny Ave.  
PITTSBURGH—Iron City Sash & Door Co., 36th Street and B. & O. R. R.  
SCRANTON—Robbins Door & Sash Co., 301 Green Ridge Street.  
WILKES-BARRE—Robbins Door & Sash Co., P. O. Box 307  
WILLIAMSPORT—Robbins Door & Sash Co., Foot of Penn St.

## SOUTH DAKOTA

SIOUX FALLS—Jordan Millwork Co.  
WATERTOWN—Watertown Sash & Door Co.

## TENNESSEE

KNOXVILLE—Huttig Sash & Door Co., 900 North 6th Avenue  
MEMPHIS—Memphis Sash & Door Co., Box 437  
NASHVILLE—Huttig Sash & Door Co., Fessey Park Road

## TEXAS

AMARILLO—Amarillo Sash & Door Co., 1100 Grant Street  
AMARILLO—United Sash & Door Co., Box 446  
AUSTIN—Davidson Sash & Door Co.  
DALLAS—Huttig Sash & Door Co., 6519 Cedar Springs Road  
FORT WORTH—Texas Sash & Door Co., 201 Rupert St., Box 1905  
HOUSTON—Houston Sash & Door Co., 813 McKee Street  
LUBBOCK—Lubbock Sash & Door Co.

## UTAH

SALT LAKE CITY—Utah Lumber Co., 333 W. 1st South

## VIRGINIA

ARLINGTON—Morgan Millwork Co., 1401 So. Fern St.  
ROANOKE—Huttig Sash & Door Co., Campbell Ave. at 18th St. S.W.

## WASHINGTON

SPOKANE—Exchange Lumber and Manufacturing Co., P. O. Box 1514

## WISCONSIN

OSHKOSH—The Radford Company  
WAUKESHA—Wilbur Lumber Company

**Andersen Corporation** • BAYPORT, MINNESOTA • WINDOW SPECIALISTS FOR MORE THAN 50 YEARS